CONTENTS OF VOLUME 36

van Adrichem, M. C. J. See Newton, W., 297.
Amiot, L. P. See Gagnon, D., 209.
Baenziger, H. and **Greenshields, J. E. R.** The effect of interspecific hybridization on certain genetic ratios in sweet clover, 411.
Bakshi, B. K., Singh, B., and **Gibson, S.** Occurrence of *Trametes sepium* in India, 603.
Bakshi, B. K., Singh, B., and **Puri, Y. N.** Occurrence of *Polyporus leucospongia* in India, 363.
Basham, J. T. Decay of trembling aspen, 491.
Baylis, R. J. Studies of *Tilletia contraversa*, the cause of dwarf bunt of winter wheat, 17.
Beaudry, J. R., Zinger, A., and **Saint-Pierre, J.** Études sur le genre *Solidago* L. II. La mise en évidence de la polyploïdie endotaxonique chez *S. Pushii* Porter et les taxa similaires, 663.
Bidwell, R. G. S. Photosynthesis and metabolism of marine algae. II. A survey of rates and products of photosynthesis in $C^{14}O_2$, 337.
Bidwell, R. G. S., Craigie, J. S., and **Krotkov, G.** Photosynthesis and metabolism in marine algae. III. Distribution of photosynthetic carbon from $C^{14}O_2$ in *Fucus vesiculosus*, 581.
Bolton, A. T. Cultural variation in *Mycosphaerella fragariae*, 935.
Bowden, W. M. Natural and artificial ×*Elymordeum* hybrids, 101.
Boyce, H. R. See Mountain, W. B., 125, 135.
Bray, J. R. The distribution of savanna species in relation to light intensity, 671.
Brewer, D. Studies on slime accumulations in pulp and paper mills. I. Some fungi isolated from mills in New Brunswick and Newfoundland, 941.
Bubar, J. S. An association between variability in ovule development within ovaries and self-incompatibility in *Lotus* (Leguminosae), 65.
Butler, L. and **Chang, L. O.** Genetics and physiology of the xanthophyllous mutant of the tomato, 251.
Campbell, W. P. Infection of barley by *Claviceps purpurea*, 615.
Chang, L. O. See Butler, L., 251.
Chinn, S. H. F. and **Ledingham, R. J.** Application of a new laboratory method for the determination of the survival of *Helminthosporium sativum* spores in soil, 289.
Craig, B. G. See Terasmae, J., 567.
Craigie, J. S. See Bidwell, R. G. S., 581.
Doyle, W. P. and **Wang, C. H.** Glucose catabolism in pepper fruit (*Capsicum frutescens* Longum), 483.
Duff, G. H. and **Nolan, N. J.** Growth and morphogenesis in the Canadian forest species. III. The time scale of morphogenesis at the stem apex of *Pinus resinosa* Ait., 687.
Etheridge, D. E. The effect on variations in decay of moisture content and rate of growth in subalpine spruce, 187.
Eydt, H. R. See Radforth, N. W., 153.
Fensom, D. S. The bio-electric potentials of plants and their functional significance. II. The patterns of bio-electric potential and exudation rate in excised sunflower roots and stems, 367.
Forsyth, F. R. See Samborski, D. J., 591.
Forsyth, F. R. and **Samborski, D. J.** The effect of various methods of breaking resistance on stem rust reaction and content of soluble carbohydrate and nitrogen in wheat leaves, 717.
Gage, R. S. See Stinson, R. H., 927.
Gagnon, D., Lafond, A., and **Amiot, L. P.** Mineral nutrient content of some forest plant leaves and of the humus layer as related to site quality, 209.
Gibson, S. See Bakshi, B. K., 603.
Good, H. M. and **Spanis, W.** Some factors affecting the germination of spores of *Fomes igniarius* var. *populinus* (Neuman) Campbell, and the significance of these factors in infection, 421.
Green, G. J. and **Johnson, T.** Further evidence of resistance in *Berberis vulgaris* to race 15B of *Puccinia graminis* f. sp. *tritici*, 351.
Greenidge, K. N. H. A note on the rates of upward travel of moisture in trees under differing experimental conditions, 357.
Greenshields, J. E. R. See Baenziger, H., 411.
Hawkins, A. R. See Shaw, M., 1.
Hawn, E. J. Studies on the epidemiology of crown bud rot of alfalfa in southern Alberta, 239.
Hughes, S. J. Revisiones hyphomycetum aliquot cum appendice de nominibus rejiciendis, 727.
Johnson, T. See Green, G. J., 351.

Julien, J. B. Cytological studies of *Venturia inaequalis*, 607.
Keith, L. B. Some effects of increasing soil salinity on plant communities, 79.
Kemp, W. G. See Weintraub, M., 455.
Koch, L. W. See Patrick, Z. A., 621.
Knowles, R. H. and **Zalik, S.** Effects of temperature treatment and of a native inhibitor on seed dormancy and of cotyledon removal on epicotyl growth in *Viburnum trilobum* Marsh[.], 561.
Knott, D. R. The inheritance in wheat of a blue endosperm color derived from *Agropyron elongatum*, 571.
Krotkov, G. See Bidwell, R. G. S., 581; Rizvi, S., 73.
Krupka, R. M. and **Towers, G. H. N.** Studies of the keto acids of wheat. I. Behavior during growth, 165.
Studies of the keto acids of wheat. II. Glyoxylic acid and its relation to allantoin, 179.
Lafond, A. See Gagnon, D., 209.
Langille, W. M. See Young, E. G., 301.
Ledingham, R. J. See Chinn, S. H. F., 289.
Lefrançois, M. and **Ouellet, C.** Inhibition sélective de la photosynthèse par le méthanol chez *Scenedesmus*, 457.
Linzon, S. N. *Peniophora phlebioides* Jackson and Dearden, a sapwood deteriorating fungus on eastern white pine, 207.
Ludwig, R. A. See Thorn, G. D., 389.
Ludwig, R. A. and **Thorn, G. D.** The interaction between disodium ethylenebisdithiocarbamate (nabam) and manganese, 473.
MacNaughton, E. B. See Stinson, R. H., 927.
MacNutt, M. M. See von Maltzahn, K. E., 33.
von Maltzahn, K. E. and **MacNutt, M. M.** Regeneration in *Splachnum ampullaceum* (L.) Hedw., 33.
Minshall, W. H. Factors affecting ion retention and variation of osmotic pressure in water hyacinth roots, 325.
Moore, R. J. Cytotaxonomy of *Euphorbia esula* in Canada and its hybrid with *Euphorbia cyparissias*, 547.
Mountain, W. B. and **Boyce, H. R.** The peach replant problem in Ontario. V. The relation of parasitic nematodes to regional differences in severity of peach replant failure, 125.
The peach replant problem in Ontario. VI. The relation of *Pratylenchus penetrans* to the growth of young peach trees, 135.
Mudd, J. B. and **Zalik, S.** The metabolism of indole by tomato-plant tissues and extracts, 467.
Naguib, K. The pH factor in the metabolism of *Fusarium moniliforme* Sheldon on sucrose, 57.
Naylor, J. M. Control of nuclear processes by auxin in axillary buds of *Tradescantia paludosa*, 221.
Neish, A. C. Seasonal changes in metabolism of spruce leaves, 649.
Nelson, C. D. Further evidence for the validity of the degradation of C^{14}-labelled aspartic acid isolated from detached leaves, 725.
Newton, W. and **van Adrichem, M. C. J.** Resistance to verticillium wilt in F_1 generations of self-fertilized species of *Fragaria*, 297.
Nobles, M. K. A rapid test for extracellular oxidase in cultures of wood-inhabiting Hymenomycetes, 91.
Cultural characters as a guide to the taxonomy and phylogeny of the Polyporaceae, 883.
Nolan, N. J. See Duff, G. H., 687.
Oaks, A. See Shaw, M., 233.
Ouellet, C. See Lefrançois, M., 457.
Parmelee, J. A. Some foliicolous fungi of the Pyrolaceae, 865.
Patrick, Z. A. and **Koch, L. W.** Inhibition of respiration, germination, and growth by substances arising during the decomposition of certain plant residues in the soil, 621.
Person, C. See Samborski, D. J., 591.
Puri, Y. N. See Bakshi, B. K., 363.
Radforth, N. W. and **Eydt, H. R.** Botanical derivatives contributing to the structure of major peat types, 153.
Reid, J. Studies on the fusaria which cause wilt in melons. I. The occurrence and distribution of races of the muskmelon and watermelon fusaria and a histological study of the colonization of muskmelon plants susceptible or resistant to fusarium wilt, 393.
Studies on the fusaria which cause wilt in melons. II. The effect of light, nutrition, and various chemicals on the sporulation of certain fusarial isolates, and preliminary investigations on the etiology of wilting of the muskmelon *Fusarium*, 507.

Rizvi, S. and **Krotkov, G.** Metabolism of the intermediate products of starch amylolysis in detached tobacco leaves, 73.
Runeckles, V. C. Phosphate metabolism in leaves. I. Identification of some phosphorylated compounds in wheat leaves, 707.
Saint-Pierre, J. See Beaudry, J. R., 663.
Samborski, D. J. See Forsyth, F. R., 717; Shaw, M., 233.
Samborski, D. J., Forsyth, F. R., and **Person, C.** Metabolic changes in detached wheat leaves floated on benzimidazole and the effect of these changes on rust reaction, 591.
Sampson, D. R. The genetics of self-incompatibility in *Lesquerella densipila* and in the F_1 hybrid *L. densipila* × *L. lescurii*, 39.
Sarkar, N. M. Cytotaxonomic studies on *Rumex* section *Axillares*, 947.
Sarkar, P. Cytotaxonomic studies on *Eremopyrum*, 539.
Schuster, R. M. Notes on nearctic Hepaticae. XIII. The genus *Tritomaria* (Lophoziaceae) in Arctic Canada, 269.
Shaw, M. The physiology of stomata. II. The apparent absence of chlorophyll, photosynthesis, and a normal response to light in the stomatal cells of an albino barley, 575.
Shaw, M. and **Hawkins, A. R.** The physiology of host–parasite relations. V. A preliminary examination of the level of free endogenous indoleacetic acid in rusted and mildewed cereal leaves and their ability to decarboxylate exogenously supplied radioactive indoleacetic acid, 1.
Shaw, M., Samborski, D. J., and **Oaks, A.** Some effects of indoleacetic acid and maleic hydrazide on the respiration and flowering of wheat, 233.
Singh, B. See Bakshi, B. K., 363, 603.
Slankis, V. An apparatus for surface sterilization of root tips, 837.
Somers, E. The uptake of a homologous series of fungicides by plant tissue and fungal spores, 997.
Spanis, W. See Good, H. M., 421.
Stace-Smith, R. Studies on *Rubus* virus diseases in British Columbia. V. Thimbleberry ring spot, 385.
Stinson, R. H., Gage, R. S., and **MacNaughton, E. B.** The effect of light and temperature on the growth and respiration of *Botrytis squamosa*, 927.
Stover, R. H. Studies on *Fusarium* wilt of bananas. II. Some factors influencing survival and saprophytic multiplication of *F. oxysporum* f. *cubense* in soil, 311.
Studies on *Fusarium* wilt of bananas. III. Influence of soil fungitoxins on behavior of *F. oxysporum* f. *cubense* in soil extracts and diffusates, 439.
Terasmae, J. and **Craig, B. G.** Discovery of fossil *Ceratophyllum demersum* L. in Northwest Territories, Canada, 567.
Thompson, H. S. *Pythium* rot of *Saintpaulia*, the African violet, 843.
Thorn, G. D. See Ludwig, R. A., 473.
Thorn, G. D. and **Ludwig, R. A.** S-alkyl-2,5-dimercapto-1,3,4-thiadiazoles, 389.
Towers, G. H. N. See Krupka, R. M., 165, 179.
Townshend, J. L. The effect of *Pratylenchus penetrans* on a clone of *Fragaria vesca*, 683.
Wang, C. H. See Doyle, W. P., 483.
Weintraub, M. and **Kemp, W. G.** The effect of darkness on lesion production in *Nicotiana glutinosa* L., 455.
Young, E. G. and **Langille, W. M.** The occurrence of inorganic elements in marine algae of the Atlantic Provinces of Canada, 301.
Zalik, S. See Knowles, R. H., 561; Mudd, J. B., 467.
Zinger, A. See Beaudry, J. R., 663.